



Missouri  
Department of  
Natural Resources

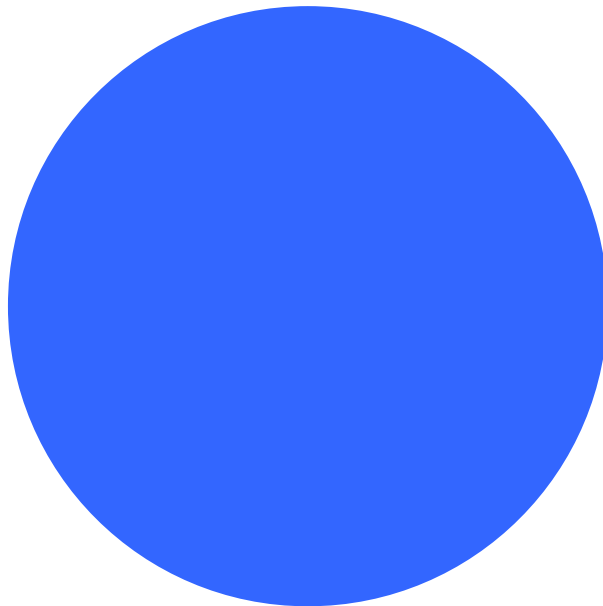
**Power Plant: Howard Bend**  
**Plant Owner: Union Electric Company**  
**Power generated in 2009 from non-renewable and renewable sources**

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated in 2009 (MWh)	Percent of Total	
Non-renewable sources						
Coal-fired power						
Natural gas-fired power						
Oil-fired power	3,495	100.00%		145	100.00%	
Nuclear power						
Other non-renewable power						
Non-renewable total	3,495	100.00%	100.00%	145	100.00%	100.00%
Renewable sources						
Hydroelectric Power						
Wind						
Waste and biomass						
Solar						
Geothermal						
Landfill Gas						
Renewable total	0	0.00%	0.00%	0	0.00%	0.00%
Grand total all sources	3,495		100.00%	145		100.00%

Fuel Type	Physical Units	Number of Units
<b>Distillate Fuel Oil</b>	Barrels	607



### Net Generation by Fuel Type, 2009 for Howard Bend



■ Oil-fired power: 100.00%



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**Howard Bend**  
**Emissions from Electricity Generated in 2009**

Plant	Carbon Dioxide(CO2) (Tons)	Carbon Monoxide(CO) (Tons)	Ammonia (NH3) (Tons)	Nitrogen Oxides (NOx) (Tons)	Sulfur Dioxides (SO2) (Tons)
<b>Howard Bend</b>	48.98	0.12	NV	1.68	2.44

Plant	Volatile Organic Compounds (VOC) (Tons)	Course Particulate Matter (PM10) (Tons)	Fine Particulate Matter (PM2.5) (Tons)	Mercury (Hg) (LBS)
<b>Howard Bend</b>	0.04	0.09	NV	NV

'NV' = Emissions value not available.



**Pollution controls installed on Howard Bend**

<b>SO2 Controls</b>			
Plant	Control Equipment	Sorbent Type	Operational Efficiency
<b>Howard Bend</b>	No SO2 Controls Installed		

<b>NOX Controls</b>				
Plant	Device Type	Description	Capture Efficiency	Control Efficiency
<b>Howard Bend</b>	No NOX Controls Installed			

**Data Sources**

- Emissions Data: Missouri Department of Natural Resources, Air Pollution Control Program, Missouri Emissions Inventory System (MOEIS)  
<http://www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm>
- CO2 Emissions calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data
- Fuel Consumption and Generation Data: United States Energy Information Administration, Form 923, United States Department of Energy  
[http://www.eia.gov/cneaf/electricity/page/eia906\\_920.html](http://www.eia.gov/cneaf/electricity/page/eia906_920.html)